6AG5

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R-F AMPLIFIER PENTODE

MINIATURE TYPE

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances (Approx.):°		
Grid to Plate	0.025 max.	μμf
Input	6.5	μμf
Output	1.8	μμf
Maximum Overall Length		2-1/8"
Maximum Seated Height		1-7/8"
Length from Base Seat to Bulb Top (excluding tip)		1-1/2" ± 3/32" ←
Maximum Diameter		3/4"
Bulb		T-5-1/2
Base▲		Miniature Button 7-Pin
Pin 1 - Grid		Pin 5 - Plate
Pin 2 - Cathode, Internal Shield, Grid No.3		Pin 6 - Screen
Pin 3 - Heater		Pin 7 - Cathode, Internal Shield, Grid No.3
Pin 4 - Heater		
RCA Socket		Stock No.9914
Mounting Position		Any

BOTTOM VIEW (7BD)

Maximum Ratings Are Design-Center Values

AMPLIFIER (Pentode Connection)

Plate Voltage			300 max.	volts
Screen Voltage			150 max.	volts
Plate Dissipation			2 max.	watts
Screen Dissipation			0.5 max.	watt
D-C Heater-Cathode Potential			100 max.	volts ←
Typical Operation and Characteristics - Class A_1 Amplifier:				
Plate	100	125	250	volts
Screen	100	125	150	volts
Cathode-Bias Resistor	100	100	200	ohms
Plate Res. (Approx.)	0.3	0.5	0.8	megohm
Transcond.	4750	5100	5000	μmhos
Grid Bias for Plate Current = 10 μamp.	-5	-6	-8	volts
Plate Cur.	5.5	7.2	7	ma.
Screen Cur.	1.6	2.1	2	ma.

AMPLIFIER (Triode Connection)* ←

Plate Voltage		300 max.	volts
Plate and Screen Dissipation (Total)		2.5 max.	watts
D-C Heater-Cathode Potential		100 max.	volts
Typical Operation and Characteristics - Class A_1 Amplifier:			
Plate	180	250	volts
Cathode-Bias Resistor	350	825	ohms
Plate Res.	7900	11000	ohms
Amp. Factor	45	42	
Transcond.	5700	3800	μmhos
Plate Cur.	7.0	5.5	ma.

°, *, ▲: See next page.

← Indicates a change.

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° With no external shield.
* Screen tied to plate.

NOTE: The 6AG5 may be used as an r-f amplifier at frequencies up to about 400 megacycles.

▲ *The center hole in sockets designed for this base provides for the possibility that this tube type may be manufactured with the exhaust-tube tip at the base end. For this reason, it is recommended that in equipment employing this tube type, no material be permitted to obstruct the socket hole.*

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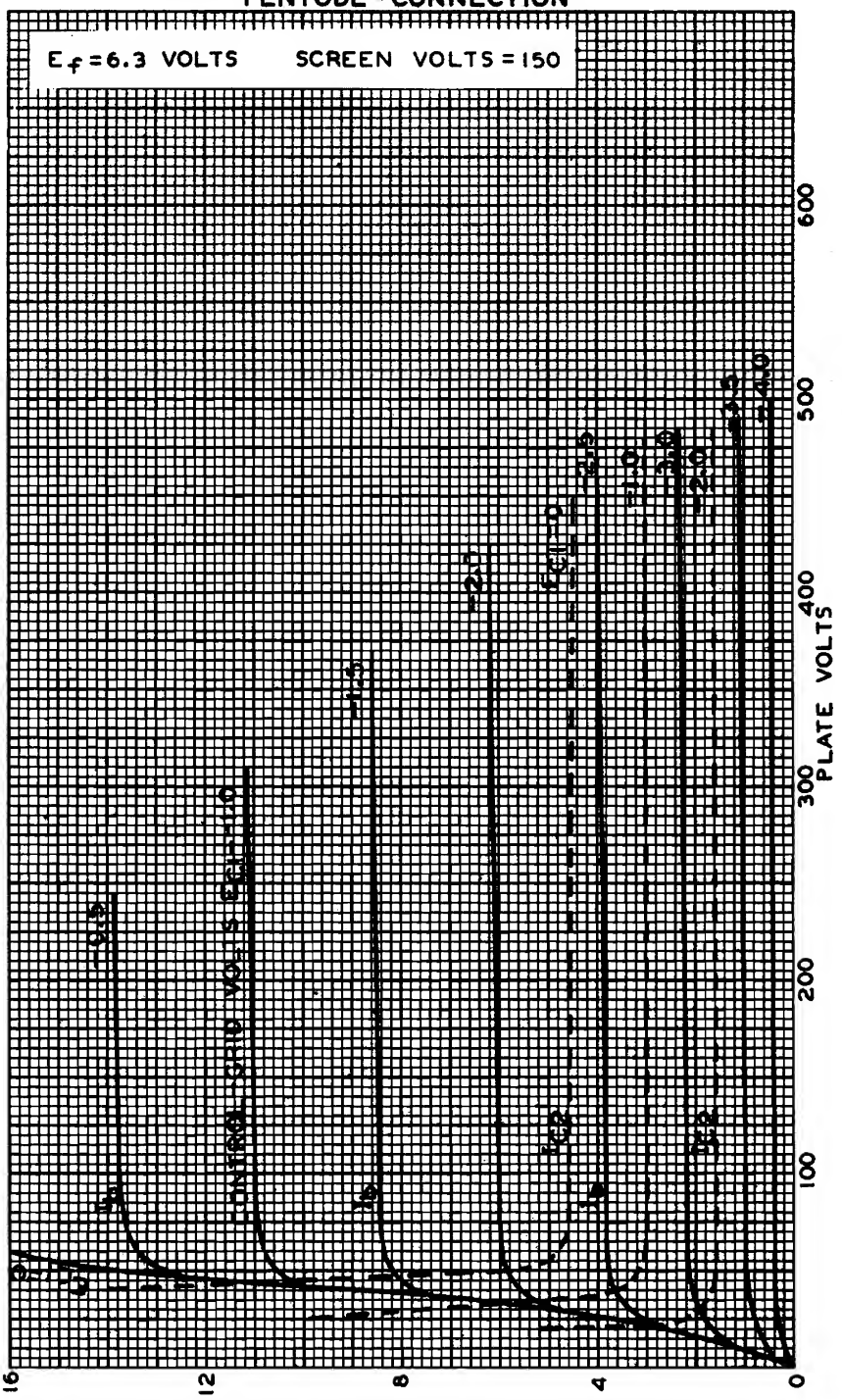
AVERAGE PLATE CHARACTERISTICS
PENTODE CONNECTION



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RADIO CORPORATION OF AMERICA HARRISON, NEW JERSEY

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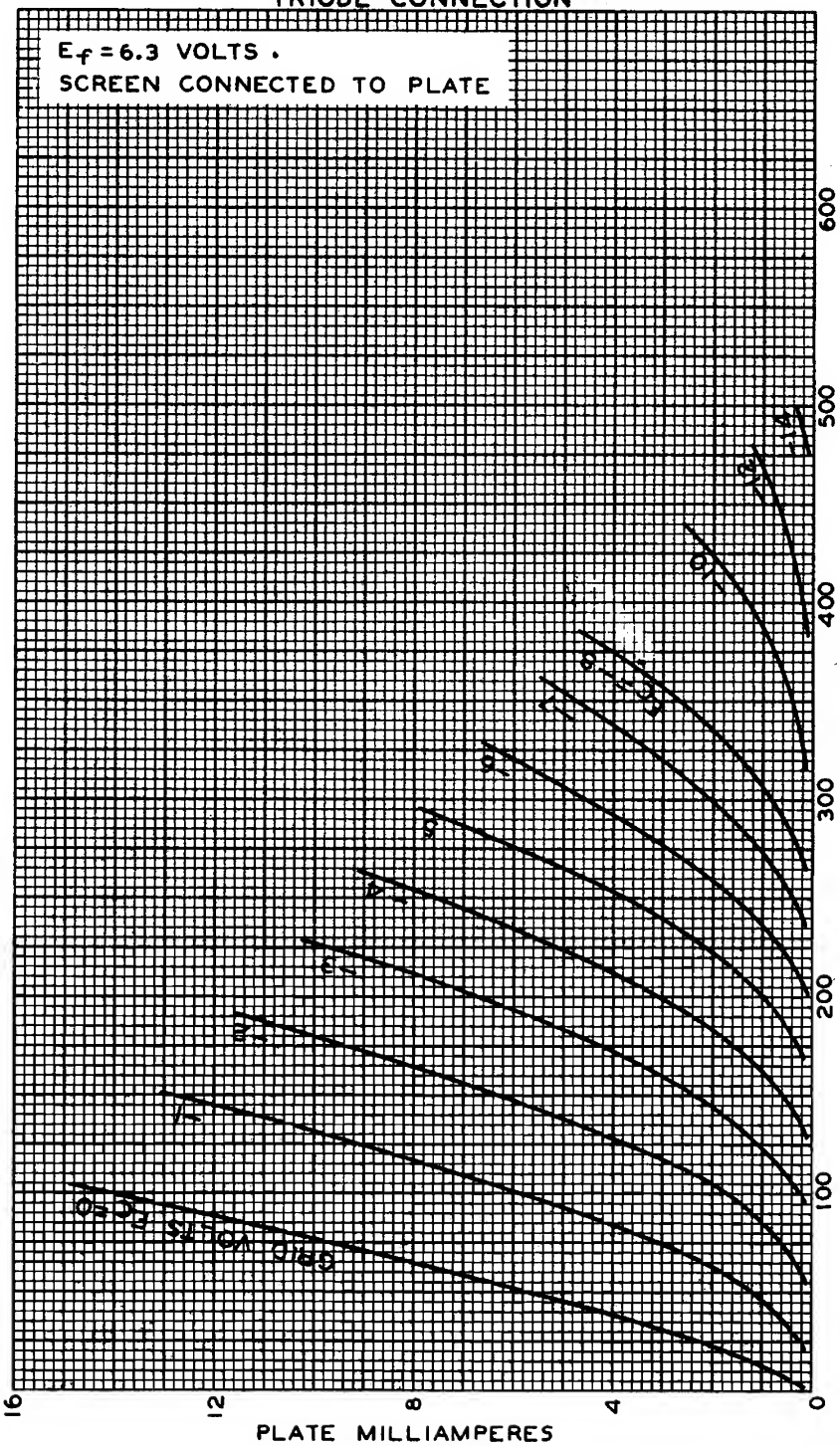
AVERAGE PLATE CHARACTERISTICS

TRIODE CONNECTION



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